

# Onchocerca volvulus OV16 protein, GST Tag

Catalog # OV6-V51G4



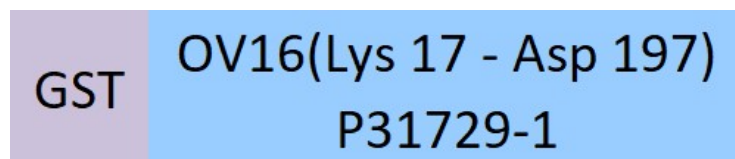
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## Source

Onchocerca volvulus OV16, GST Tag(OV6-V51G4) is expressed from E. coli cells. It contains AA Lys 17 - Asp 197 (Accession # [P31729-1](#)).

Predicted N-terminus: Met

## Molecular Characterization



This protein carries a GST tag at the N-terminus.

The protein has a calculated MW of 46.8 kDa. The protein migrates as 45 kDa under reducing (R) condition (SDS-PAGE).

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

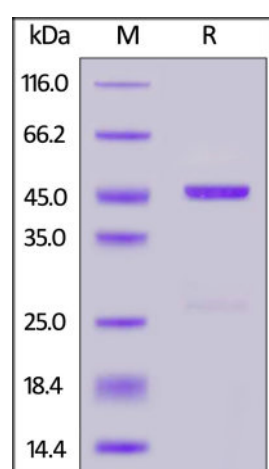
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Onchocerca volvulus OV16, GST Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Background

The OV16 antigen, localizes to the hypodermis, cuticle, and uterus of female O. volvulus is regarded as a highly sensitive and specific antigen for detection of IgG4 in people with prior exposure to onchocerciasis. It has an open reading frame that encodes a 152- amino acid polypeptide containing a 16-amino acid putative signal peptide. Enzyme-linked Immunosorbent Assay serological testing of OV-16 antigen is a diagnostic tool for determining effective elimination of the parasite.

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